

Jordi Pallares

List of Publications by Year in descending order

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112
papers

1,578
citations

361045

20
h-index

344852

36
g-index

118
all docs

118
docs citations

118
times ranked

1320
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of solid particles on the slug frequency, bubble velocity and bubble length of intermittent gas-liquid two-phase flows in horizontal pipelines. <i>International Journal of Multiphase Flow</i> , 2022, 149, 103985.	1.6	6
2	A model to predict the short-term turbulent indoor dispersion of small droplets and droplet nuclei released from coughs and sneezes. <i>Indoor and Built Environment</i> , 2022, 31, 1393-1404.	1.5	7
3	Experimental and numerical investigation of the flow in a cylindrical cavity with an unsteady rotating lid. <i>Acta Mechanica</i> , 2022, 233, 1107-1124.	1.1	2
4	Transport and wall surface deposition of airborne particles in enclosed, buoyancy-driven turbulent flows using fully-resolved numerical simulations. <i>International Communications in Heat and Mass Transfer</i> , 2022, 134, 106048.	2.9	1
5	Shape evolution of long flexible fibers in viscous flows. <i>Acta Mechanica</i> , 2022, 233, 2077-2091.	1.1	3
6	Comparison between fully resolved and time-averaged simulations of particle cloud dispersion produced by a violent expiratory event. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2022, 38, .	1.5	4
7	Prediction of particle deposition on the walls of a cubical cavity with differentially heated opposed walls using heat and mass transfer laminar mixed convection boundary layer models. <i>International Journal of Heat and Mass Transfer</i> , 2021, 165, 120691.	2.5	4
8	10.1063/5.0045416.3. , 2021, , .		0
9	Direct numerical simulation of turbulent dispersion of evaporative aerosol clouds produced by an intense expiratory event. <i>Physics of Fluids</i> , 2021, 33, 033329.	1.6	24
10	Direct numerical simulation of the turbulent flow generated during a violent expiratory event. <i>Physics of Fluids</i> , 2021, 33, 035122.	1.6	39
11	Experimental Study of the Deposition of Magnetic Particles on the Walls of Microchannels. <i>Micromachines</i> , 2021, 12, 712.	1.4	2
12	Double path digital inline holography set-up to record simultaneously two different volume transversal sections.. , 2021, , .		0
13	Visualization and measurement of two-phase flows in horizontal pipelines. <i>Experimental and Computational Multiphase Flow</i> , 2020, 2, 41-51.	1.9	18
14	Advances in interferometric techniques for the analysis of the three-dimensional flow in a lid-driven cylindrical cavity. <i>Experiments in Fluids</i> , 2020, 61, 1.	1.1	7
15	Collisions and caustics frequencies of long flexible fibers in two-dimensional flow fields. <i>Acta Mechanica</i> , 2020, 231, 2979-2987.	1.1	1
16	Bayesian Machine Scientist to Compare Data Collapses for the Nikuradse Dataset. <i>Physical Review Letters</i> , 2020, 124, 084503.	2.9	3
17	Heat transfer and boundary layer analyses of laminar and turbulent natural convection in a cubical cavity with differently heated opposed walls. <i>International Journal of Heat and Mass Transfer</i> , 2020, 151, 119409.	2.5	23
18	A Bayesian machine scientist to aid in the solution of challenging scientific problems. <i>Science Advances</i> , 2020, 6, eaav6971.	4.7	64

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19	Experimental Analysis of Gas-Liquid-Solid Three-Phase Flows in Horizontal Pipelines. <i>Flow, Turbulence and Combustion</i> , 2020, 105, 1035-1054.	1.4	4
20	Flow analysis of a set of ornamental chimney caps designed by Antoni Gaudí. <i>Heritage Science</i> , 2020, 8, .	1.0	0
21	Woven Coronary Disease. <i>Circulation: Cardiovascular Interventions</i> , 2019, 12, e008087.	1.4	4
22	Effect of reboosting manoeuvres on the determination of the Soret coefficients of DCMIX ternary systems. <i>International Journal of Thermal Sciences</i> , 2019, 142, 205-219.	2.6	10
23	Dynamics of a capsule flowing in a tube under pulsatile flow. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 90, 441-450.	1.5	6
24	Particle dispersion in a double-diffusive turbulent layer. <i>International Journal of Heat and Mass Transfer</i> , 2018, 122, 364-374.	2.5	0
25	Numerical and experimental modelization of the two-phase mixing in a small scale stirred vessel. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 60, 286-296.	2.9	3
26	Real-World Variability in the Prediction of Intracranial Aneurysm Wall Shear Stress: The 2015 International Aneurysm CFD Challenge. <i>Cardiovascular Engineering and Technology</i> , 2018, 9, 544-564.	0.7	78
27	Multiple Aneurysms AnaTomy CHallenge 2018 (MATCH): Phase I: Segmentation. <i>Cardiovascular Engineering and Technology</i> , 2018, 9, 565-581.	0.7	59
28	On the impact of the ISS reboosting maneuvers during thermodiffusion experiments of ternary liquid systems: Pure diffusion. <i>International Journal of Thermal Sciences</i> , 2018, 132, 186-198.	2.6	10
29	Clustering of long flexible fibers in two-dimensional flow fields for different Stokes numbers. <i>International Journal of Heat and Mass Transfer</i> , 2017, 111, 532-539.	2.5	4
30	Characterization of a new open jet wind tunnel to optimize and test vertical axis wind turbines. <i>Journal of Renewable and Sustainable Energy</i> , 2017, 9, .	0.8	7
31	A 3D isogeometric BE-FE analysis with dynamic remeshing for the simulation of a deformable particle in shear flows. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 326, 70-101.	3.4	14
32	Solutal natural convection flows in ternary mixtures. <i>International Journal of Heat and Mass Transfer</i> , 2017, 106, 232-243.	2.5	9
33	Turbulent Schmidt numbers for CFD simulations using the $k-\mu$ and $k-\epsilon$ models. <i>Progress in Computational Fluid Dynamics</i> , 2016, 16, 356.	0.1	2
34	Some considerations on the vibrational environment of the DSC-DCMIX1 experiment onboard ISS. <i>Acta Astronautica</i> , 2016, 129, 345-356.	1.7	11
35	A Multiple Actuator Block model for vertical axis wind turbines. <i>Renewable Energy</i> , 2016, 99, 592-601.	4.3	4
36	An unsteady 3D Isogeometrical Boundary Element Analysis applied to nonlinear gravity waves. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 310, 112-133.	3.4	9

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37	Steady and unsteady mixed convection flow in a cubical open cavity with the bottom wall heated. <i>International Journal of Heat and Mass Transfer</i> , 2016, 101, 682-691.	2.5	20
38	Characterization of the reacting laminar flow in a cylindrical cavity with a rotating endwall using numerical simulations and a combined PIV/PLIF technique. <i>International Journal of Heat and Mass Transfer</i> , 2016, 93, 155-166.	2.5	14
39	A Criterion for the Complete Deposition of Magnetic Beads on the Walls of Microchannels. <i>PLoS ONE</i> , 2016, 11, e0151053.	1.1	3
40	Turbulent Schmidt numbers for CFD simulations using the $k-\hat{\mu}$ and $k-\hat{\nu}$ models. <i>Progress in Computational Fluid Dynamics</i> , 2016, 16, 356.	0.1	0
41	A comprehensive study on different modelling approaches to predict platelet deposition rates in a perfusion chamber. <i>Scientific Reports</i> , 2015, 5, 13606.	1.6	3
42	The Computational Fluid Dynamics Rupture Challenge 2013â€”Phase II: Variability of Hemodynamic Simulations in Two Intracranial Aneurysms. <i>Journal of Biomechanical Engineering</i> , 2015, 137, 121008.	0.6	74
43	Local mass transfer rates of a first-order chemical reaction on a wall: Application to the prediction of local platelet deposition in a perfusion chamber. <i>International Journal of Heat and Mass Transfer</i> , 2015, 90, 254-258.	2.5	3
44	On the impact of free surfaces on the measurement of diffusion coefficients in metallic binary alloys using shear cells. <i>International Journal of Heat and Mass Transfer</i> , 2015, 81, 602-617.	2.5	2
45	A simple model to predict mass transfer rates and kinetics of biochemical and biomedical Michaelis-Menten surface reactions. <i>International Journal of Heat and Mass Transfer</i> , 2015, 80, 192-198.	2.5	10
46	Accuracy and Reproducibility of Patient-Specific Hemodynamic Models of Stented Intracranial Aneurysms: Report on the Virtual Intracranial Stenting Challenge 2011. <i>Annals of Biomedical Engineering</i> , 2015, 43, 154-167.	1.3	17
47	Comparative ISS accelerometric analyses. <i>Acta Astronautica</i> , 2014, 94, 681-689.	1.7	11
48	Mass transfer rate of a first-order chemical reaction on a wall at high Schmidt numbers. <i>International Journal of Heat and Mass Transfer</i> , 2014, 69, 438-442.	2.5	11
49	NUMERICAL STUDY OF THE EFFECT OF THE WALL ON THE DISTRIBUTION OF ISOTHERMAL TWO-PHASE FLOW IN THE BED OF A HYDRODESULFURIZATION REACTOR. <i>Chemical Engineering Communications</i> , 2014, 201, 1555-1567.	1.5	2
50	Effect of the instantaneous turbulent flow structures on the particle distribution near the wall of a channel. <i>European Journal of Mechanics, B/Fluids</i> , 2014, 46, 144-153.	1.2	5
51	Identification of vortex cores of three-dimensional large-vortical structures. <i>Archive of Applied Mechanics</i> , 2013, 83, 1383-1391.	1.2	3
52	Macro- and micromixing in a plane turbulent channel flow with a second-order chemical reaction. <i>Computers and Fluids</i> , 2013, 88, 156-164.	1.3	1
53	Small-scale characteristics and turbulent statistics of the flow in an external gear pump by time-resolved PIV. <i>Flow Measurement and Instrumentation</i> , 2013, 29, 52-60.	1.0	18
54	Experimental and numerical study of turbulent mixing in a model of a polymerization reactor. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 1251-1256.	2.9	7

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55	On the accuracy of the interdiffusion coefficient measurements of high-temperature binary mixtures under ISS conditions. <i>Comptes Rendus - Mecanique</i> , 2013, 341, 405-416.	2.1	6
56	Variability of Computational Fluid Dynamics Solutions for Pressure and Flow in a Giant Aneurysm: The ASME 2012 Summer Bioengineering Conference CFD Challenge. <i>Journal of Biomechanical Engineering</i> , 2013, 135, 021016.	0.6	109
57	Hemodynamics Analysis of Several Stent Treatments of a Patient Specific Anterior Communicating Artery Aneurysm. , 2012, , .		0
58	CFD Challenge: Giant Internal Carotid Artery Aneurysm Simulation Using the Commercial Finite Volume Solver Fluent. , 2012, , .		0
59	Visualization and measurement of capillary-driven blood flow using spectral domain optical coherence tomography. <i>Microfluidics and Nanofluidics</i> , 2012, 13, 227-237.	1.0	19
60	Numerical simulation of incompressible laminar flow in a three-dimensional channel with a cubical open cavity with a bottom wall heated. <i>Journal of Physics: Conference Series</i> , 2012, 395, 012099.	0.3	9
61	On the accuracy of the diffusion coefficient measurements using different initial shear cell configurations at low and moderate Rayleigh numbers. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 6966-6978.	2.5	5
62	Particle dispersion in a turbulent natural convection channel flow. <i>Journal of Aerosol Science</i> , 2012, 43, 45-56.	1.8	8
63	Comparative study of turbulent mass transfer in the viscous sublayer using electrochemical method and direct numerical simulations. <i>Russian Journal of Electrochemistry</i> , 2012, 48, 810-816.	0.3	2
64	Numerical simulation of wall mass transfer rates in capillary-driven flow in microchannels. <i>International Communications in Heat and Mass Transfer</i> , 2012, 39, 1066-1072.	2.9	11
65	Flow of CO ₂ and ethanol and of CO ₂ and methanol in a non-adiabatic microfluidic T-junction at high pressures. <i>Microfluidics and Nanofluidics</i> , 2012, 12, 927-940.	1.0	17
66	Numerical simulation of the liquid distribution in a trickle-bed reactor. <i>Chemical Engineering Science</i> , 2012, 76, 49-57.	1.9	16
67	Second-order chemical reaction micro- and macromixing in a plane turbulent channel. , 2012, , .		0
68	Scaling of Transient Natural Convection Cooling in a Side-Cooled Cavity: The Effect of Variable Viscosity. , 2011, , .		0
69	Electro-thermal simulation and characterization of preconcentration membranes. <i>Sensors and Actuators A: Physical</i> , 2011, 172, 124-128.	2.0	6
70	Transient natural convection cooling of a high Prandtl number fluid in a cubical cavity. <i>Meccanica</i> , 2011, 46, 989-1006.	1.2	6
71	Diffusion Coefficient Measurements Under Reduced Gravity Conditions by Means of the Shear Cell Technique. The Impact of Free Surfaces. <i>Microgravity Science and Technology</i> , 2011, 23, 173-180.	0.7	2
72	Numerical simulation of natural convection of a water-based nanofluid. <i>Progress in Computational Fluid Dynamics</i> , 2010, 10, 218.	0.1	4

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73	Free surfaces and interdiffusion coefficient measurements in space using shear cells. International Communications in Heat and Mass Transfer, 2010, 37, 463-468.	2.9	3
74	On the accuracy of the interdiffusion measurements at low and moderate Rayleigh numbers. Some computational considerations. International Journal of Heat and Mass Transfer, 2010, 53, 3708-3720.	2.5	10
75	Turbulent large-scale structures in natural convection vertical channel flow. International Journal of Heat and Mass Transfer, 2010, 53, 4168-4175.	2.5	23
76	Identification of near-wall flow structures producing large wall transfer rates in turbulent mixed convection channel flow. Computers and Fluids, 2010, 39, 15-24.	1.3	6
77	Identification of boundary surfaces in flows. Applied Mathematics and Mechanics (English Edition), 2010, 31, 1097-1104.	1.9	0
78	Electro-thermal simulation and characterization of preconcentration membranes. Procedia Engineering, 2010, 5, 1264-1267.	1.2	0
79	A modification of a Nusselt number correlation for forced convection in porous media. International Communications in Heat and Mass Transfer, 2010, 37, 1187-1190.	2.9	39
80	Numerical simulations of a second-order chemical reaction in a plane turbulent channel flow. International Journal of Heat and Mass Transfer, 2010, 53, 4248-4263.	2.5	10
81			

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91	Effects of Geometrical Parameters and Physical Properties Variation on Transient Natural Convection and Conduction of High Prandtl Number Fluid in Enclosures. , 2007, , 440-443.		0
92	CFD simulation of a rotating disk flat membrane module. Desalination, 2006, 200, 453-455.	4.0	24
93	A conditional sampling method based on fuzzy clustering for the analysis of large-scale dynamics in turbulent flows. European Journal of Mechanics, B/Fluids, 2006, 25, 172-191.	1.2	5
94	Growth of 2D KTP photonic crystals for efficient second order nonlinear optical processes. , 2006, , .		0
95	On the space diffusion coefficient measurements. , 2006, , .		1
96	Influence of the fabrication process on the light emission of macroporous silicon. , 2005, , .		2
97	Band structure calculation in two-dimensional Kerr-nonlinear photonic crystals. Optics Communications, 2005, 248, 469-477.	1.0	21
98	Pressure drop and heat transfer rates in forced convection rotating square duct flows at high rotation rates. Physics of Fluids, 2005, 17, 075102.	1.6	14
99	RAYLEIGH-BÄRD CONVECTION OF WATER IN A PERFECTLY CONDUCTING CUBICAL CAVITY: EFFECTS OF TEMPERATURE-DEPENDENT PHYSICAL PROPERTIES IN LAMINAR AND TURBULENT REGIMES. Numerical Heat Transfer; Part A: Applications, 2005, 47, 333-352.	1.2	21
100	Large-eddy simulations of turbulent heat transfer in stationary and rotating square ducts. Physics of Fluids, 2002, 14, 2804-2816.	1.6	54
101	Ironless armature for high speed HTS disk shaped rotor in self levitating configuration. Physica C: Superconductivity and Its Applications, 2002, 372-376, 1520-1523.	0.6	6
102	Laminar and turbulent Rayleigh-BÄrd convection in a perfectly conducting cubical cavity. International Journal of Heat and Fluid Flow, 2002, 23, 346-358.	1.1	49
103	Experimental laminar Rayleigh-BÄrd convection in a cubical cavity at moderate Rayleigh and Prandtl numbers. Experiments in Fluids, 2001, 31, 208-218.	1.1	41
104	Large-eddy simulations of turbulent flow in a rotating square duct. Physics of Fluids, 2000, 12, 2878.	1.6	58
105	Radial and axial flux superconducting motors in a levitating rotor configuration. IEEE Transactions on Applied Superconductivity, 1999, 9, 1249-1252.	1.1	18
106	Flow transitions in laminar Rayleigh-BÄrd convection in a cubical cavity at moderate Rayleigh numbers. International Journal of Heat and Mass Transfer, 1999, 42, 753-769.	2.5	71
107	Natural convection in a cubical cavity heated from below at low rayleigh numbers. International Journal of Heat and Mass Transfer, 1996, 39, 3233-3247.	2.5	60
108	Chronic pain in the spinal cord injured: statistical approach and pharmacological treatment. Spinal Cord, 1993, 31, 722-729.	0.9	66

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109	Compact modeling of nanoscale MOSFETs in the ballistic limit. , 0, , .		2
110	Injection system based on silicon oxide microneedles. , 0, , .		0
111	Investigation of photonic band gaps in triangular lattices of metallic square rods in dielectric background. , 0, , .		2
112	Dispersion characteristics of the nonlinear photonic crystal directional coupler. , 0, , .		1